REGIONAL SANITARY LANDFILL ZRENJANIN

CITY OF ZRENJANIN
DEPARTMENT OF ENVIRONMENT

BELGRADE 2012.

DEJAN JOVANOV/HEAD OF DEPARTMENT
ANA VUJINOVIĆ/HEAD OF PROJECT MANAGEMENT UNIT
1. Development of a Regional Waste Management Plan
2. Development of a Strategic Impact Assessment
3. Public debate on RWMP and SIA
4. Provincial approval
5. Adoption of the City Council
6. Adoption of Municipal Assemblies
7. General Project of the Regional Landfill with Pre-feasibility Study
8. Revision of the General Project of the Regional Landfill and Pre-feasibility Study
9. Plan of detailed regulation
12. Preliminary design with the Feasibility Study

13. Revision of Preliminary design with FS

14. Study of EIA

15. Approval on the Study on assessing the environmental impact

10. Decision on public interest and expropriation

Cost Benefit Analysis (?)

11. Location permit

16. Main project

17. Technical control of the Main project

18. Building permit

19. Building

20. Test run

21. Integrated permit

22. Use permit

23. The beginning of Regional Landfill work

MODERN LANDFILL
## Dynamics of the activities

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WASTE FACTS AND FIGURES

- Region include City of Zrenjanin and Municipalities of Sečanj, Titel, Kovačica and Žitište (213,000 citizens)
- According to GP and PFS, total quantity of communal waste is 71,763 t/year, 0,96 kg/ctz/d, 190 t/d
- Composition: 43% biodegradable waste (high methane production), 8% paper, 6% glass, 2% metal, 4% PET, etc.
- Quantity and waste composition determine Waste Management Treatment:
  - waste disposal (on region sanitary landfill)
  - cogeneration (on cogeneration plant)
  - recycling (on recycling center)
WASTE DISPOSAL
COGENERATION

- Large Quantity of biodegradable waste – large production of methane
- App. 1-1,5 MWee and 2 MWhe during 20 years of degradation
Recycling center
FINANCIAL ASPECTS

- Total costs: 21 mil. €
- Phase building: 5 phases
  - 1. phase: 10 mil. €
    - Recycling center
    - Waste water treatment (aerated lagoons)
    - Cogeneration plant
    - Regional landfill basic infrastructure
    - 1. landfill site (of five) on 5,32 ha for 6 years of waste disposal
- Estimated Time of Disposal – 32 year
THANK YOU FOR THE ATTENTION

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